

# Chapter 8 Review Sheet

## Earthquakes and Engineering

1. What are earthquakes?
2. What causes them?
3. Where do they occur most commonly?
4. What is deformation?
5. What type of fault is found at convergent boundaries?
6. What type of fault is found at divergent boundaries?
7. What type of fault is found at transform boundaries?
8. What are seismic waves?
9. What are S-Waves?
10. What are the 2 other names for S-waves?
11. How do S-waves move the ground?

12. What are P-waves?

13. What are the 2 other names for P-waves?

14. How do P-waves move the ground?

15. How do surface waves move the ground?

16. What are the fastest seismic waves?

17. What are the slowest?

18. Which cause the most damage?

19. What are aftershocks?

20. What is the epicenter?

21. What is the focus?

22. Describe how the SP time method works (hint: we did it together in class)

23. What does the Richter scale measure?

24. What is the difference between an earthquake's magnitude and its intensity?

25. Explain the relationship between an earthquake's strength and its frequency?

26. Explain the gap hypothesis?

27. Explain what engineers do?

28. Is there one perfect design?

29. Why is failure important for engineers?

30. Explain the trade-offs engineers have to make when designing something?